AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE 1 OF PAGES 5

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
01	08/18/2003	APPQMAE-0054-2	

6. ISSUED BY CODE 6395	7. ADMINISTERED BY (If other than Item 6) CODE
USDA, APHIS, MRPBS-ASD Butler Square West 5th Floor 100 North 6th Street Minneapolis, MN 55403	USDA, APHIS, MRPBS-ASD Butler Square West 5th Floor 100 North 6th Street Minneapolis, MN 55403

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)	X	9A. AMENDMENT OF SOLICITATION NO. 039-M-APHIS-03
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separateletter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

A. The purpose of this amendment is to clarify Section C - Description/Specifications/Work Statement.

1. Add Questions and Answers.
2. The time/date proposals are due remains unchanged from 2:00 p.m. local time on 08/21/2003.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED

Questions and Answers

1. Question: [Ref pg 6/74; 1(c)], refers to the drawings for Greenhouse dimensions. I believe the only dimension shown is on Drawing "Floor Plan"; 20' length (minimum). Is the interior width of the greenhouse to be specified, or determined by wall thickness/insulation and overall exterior width?

Answer: Inside dimensions of the greenhouse and laboratory areas will be Determined by wall thickness (outer panel framing members, insulation if any inner panel).

2. Question: [Ref pg 7/74; (n), (o)] I have not found Drawing A for door dimensions. Drawing "Floor Plan" shows the widths as 3'-0". Can you specify the required interior and exterior door heights?

Answer: Standard door height = 83"

3. Question: [Ref pg 6/74; (e)&(f)] Is there any objection to designing the entire roof framing (greenhouse and lab) with a 1-1/2" pitch?

Answer: There is no objection to include pitch the entire length of the trailer.

4. Question: [Ref pg 8/74; (d)&(k)] Both these sub-paragraphs refer to "twin-walled polycarbonate material," each 8mm thick. Is the intent to have two walls (interior and exterior) each made of "twin-walled polycarbonate material" (i.e., four 8mm layers of polycarbonate sheet)?

Answer: The intent is to have the side walls and the roof of the greenhouse area constructed with two layers of 8mm lexan thermoclear or equivalent. Framing members would determine the space between the outer panel and the inner panel.

5. Question: [Ref pg 12/74; (h)&(j), Plumbing System Drawing refers to "Decontamination Ports, 1 per tank, 2 total." Para (h) & (j) refer to "Holding tank" and "a decontamination port." How many effluent tanks and how many decontamination ports are intended in the specification?

Answer: The intent is to have the capacity to hold 100 gallons of effluent water. If this can be accomplished with a single tank, then only one port is needed. If multiple tanks are used, then a decontamination port is required per tank. Multiple tanks if used, must have interconnected Inlets and outlets.

6. Question: [Ref pp 12/74, 7(e), 14/74; 2(g), Plumbing System Drawing shows one Spin-Clean Filter; par. 7 (e) & 2(g) call out "one at each inlet as specified." How many Spin-Clean Filters are intended?

Answer: One Spin-Clean(superscript: TM) filter must be installed as shown in the drawing. For clarification purposes, 7 (e) in the Statement of Work should read: A Spin-Clean (superscript: TM) filter, part #19-2495-3/4" National Pipe Thread (NPT) shall be installed as shown in drawing 3 of 4. Inlet enclosures will be recessed into the body with lockable access doors.

7. Question: [Ref pp 14/74, 3(b)] A "glassware drying rack" is to be installed over the sink. Are there any specifics as to what glassware will be dried (test tubes, flasks, beakers, other, all), or is a generic rack to be installed?

Answer: The glassware drying rack will be used for laboratory type glassware such as; test tubes, flasks, breakers, etc.

8. Question: May we conclude from the fact that the "Forma Freezer" and the "Safety Lab" are not called out in Section V, 3. pp 14/74 that the manufacturer will NOT purchase and/or install these pieces of equipment?

Answer: Yes, the laboratory refrigerator/freezer and safety cabinet are not listed in Section IV as equipment to be installed by the manufacturer.

9. Question: [Ref pg 8/74; (d)] There is no specific mention in the specs of the greenhouse roof construction. The referenced sub-paragraph states "The balance of the greenhouse interior paneling shall be transparent twin-walled polycarbonate material in the 8mm thickness." May we conclude from this that the greenhouse roof shall also be panels of transparent twin-walled polycarbonate material of 8mm thickness?

Answer: This question was covered in the response to # 4.

10. Question: If the intent for the greenhouse area is to have two walls (interior and exterior) each made of 8 mm twin-walled polycarbonate material, and if the roof is to be panels of transparent twin-walled polycarbonate material of 8mm thickness (See Ques 9), then the question is as follows. Will the pitched roof also have two walls (interior and exterior) each made of 8 mm twin-walled polycarbonate material? A conceptual cross-section of the greenhouse area would prove useful in clarifying some of these issues.

Answer: Yes, the roof of the greenhouse area will be of Lexan Thermoclear (superscript: TM) or equivalent and shall include the 1-1/2" pitch.

11. Question: [Ref pg 8/74; (b)] This sub-paragraph refers to "all seams shall be sealed with a gasket material to facilitate removal, replacement, and decontamination of individual panels." Does this refer to seams in the greenhouse area AND the lab area? This will affect the construction and installation/provision for removal of the cabinets/work surfaces in the lab area.

Answer: This refers to the Lexan Thermoclear(superscript: TM) material in the greenhouse area. Extruded material is commercially available to accomplish this requirement.

12. Question: [Ref pg 13/74; (d)] What does the reference to "Cabinets shall include in their design a system to allow for various configurations of storage and worksurface space or removal as needed" actually mean? Is this referring to "movable shelving" only, or to actually moving cabinets around the lab? If the latter is the case (as it seems), this will result in extra weight and cost for the cabinets and wall structure. Also, are you concerned about multiple seams in the work surface resulting from modular construction of the work surface? Please clarify your intent.

Answer: The intent is to be able to adjust shelf height and or remove shelving and to expand work surfaces through pull-out type counter tops. Actual framing of cabinets and counter top will remain intact for adjustments.

13. Question: We find no reference to a fresh water tank in the specs. May we conclude that you do NOT need a self-contained fresh water supply? If you do need one, what capacity tank do you wish to incorporate?

Answer: No fresh water holding tank will be required.

14. Question: Air supply to the greenhouse. If the roof is constructed of panels of transparent twin-walled polycarbonate material, then there will be no ceiling to contain ducting. The output of the two Bard HVAC units will enter through the rear wall of the trailer. Is there concern for temperature variation from the rear of the greenhouse to the front? A corollary question concerns the Bard's capability to provide fresh air into the air conditioned mix. Is there concern for containment of invasive pests and diseases with respect to Bard's design?

Answer: All duct work and air filtration will be installed by the U. S. Department of Agriculture.

15. Question: [Ref pg 10/74 Part #5; (b & c),] the wall separating the greenhouse and lab areas is to have an R > 30; doors an R > 20. Is this true for the interior double sliding doors?

Answer: Yes, this is the minimum requirement for the door insulation, including the double sliding interior door. If it is convenient for the manufacturer to include more insulation on the doors or if the doors are only available with more R-Factor that would not be a concern.

16. Question: [Ref pg 8/74; (o)] we have a concern for the integrity of the greenhouse containment area vis-a-vis the interior sliding doors and the way they operate. Further, there is concern that hardware necessary to mount and operate the doors could form an (rear) area that would entrap contaminants. Has any thought been given to accepting a single bulkhead door?

Answer: This door design was chosen by the research scientist involved in this project.

17. Question: [Ref pg 8/74; (b)], the sub-paragraph refers to "all seams shall be sealed with gasket material to facilitate removal,

replacement, and decontamination of individual panels." How often do you envision removal, replacement, and/or decontamination of individual panels? This will affect the selection of fasteners.

Answer: Please refer to the following General Electric structured products website for information on this issue: www.structuredproducts.ge.com.